

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

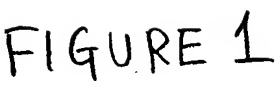
Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Appl. No.: Unknown Atty Docket: FS.20106US0A



ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES

Takashi Okuyama

Appl. No.: Unknown

Atty Docket: FS.20106US0A

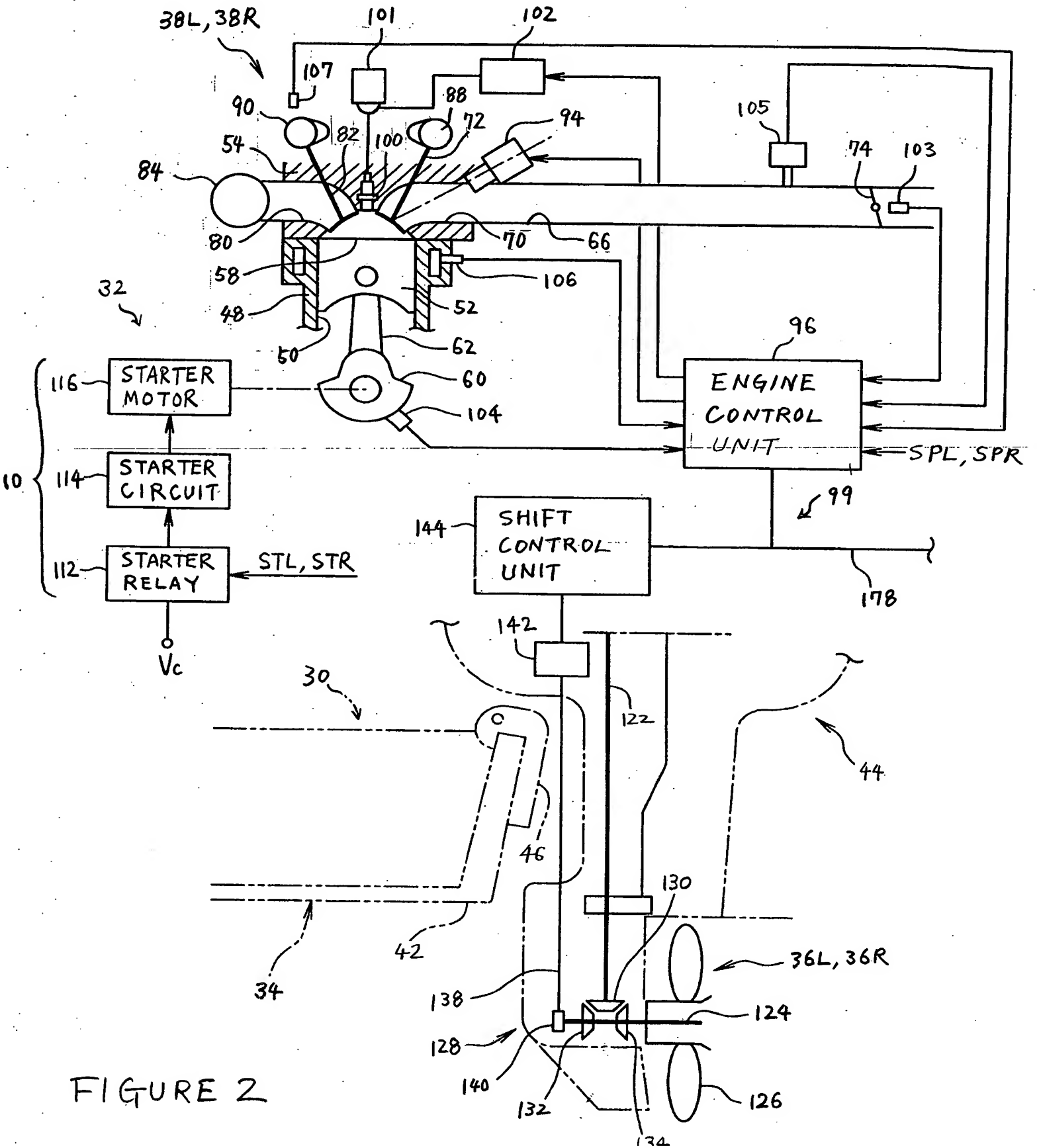


FIGURE 2

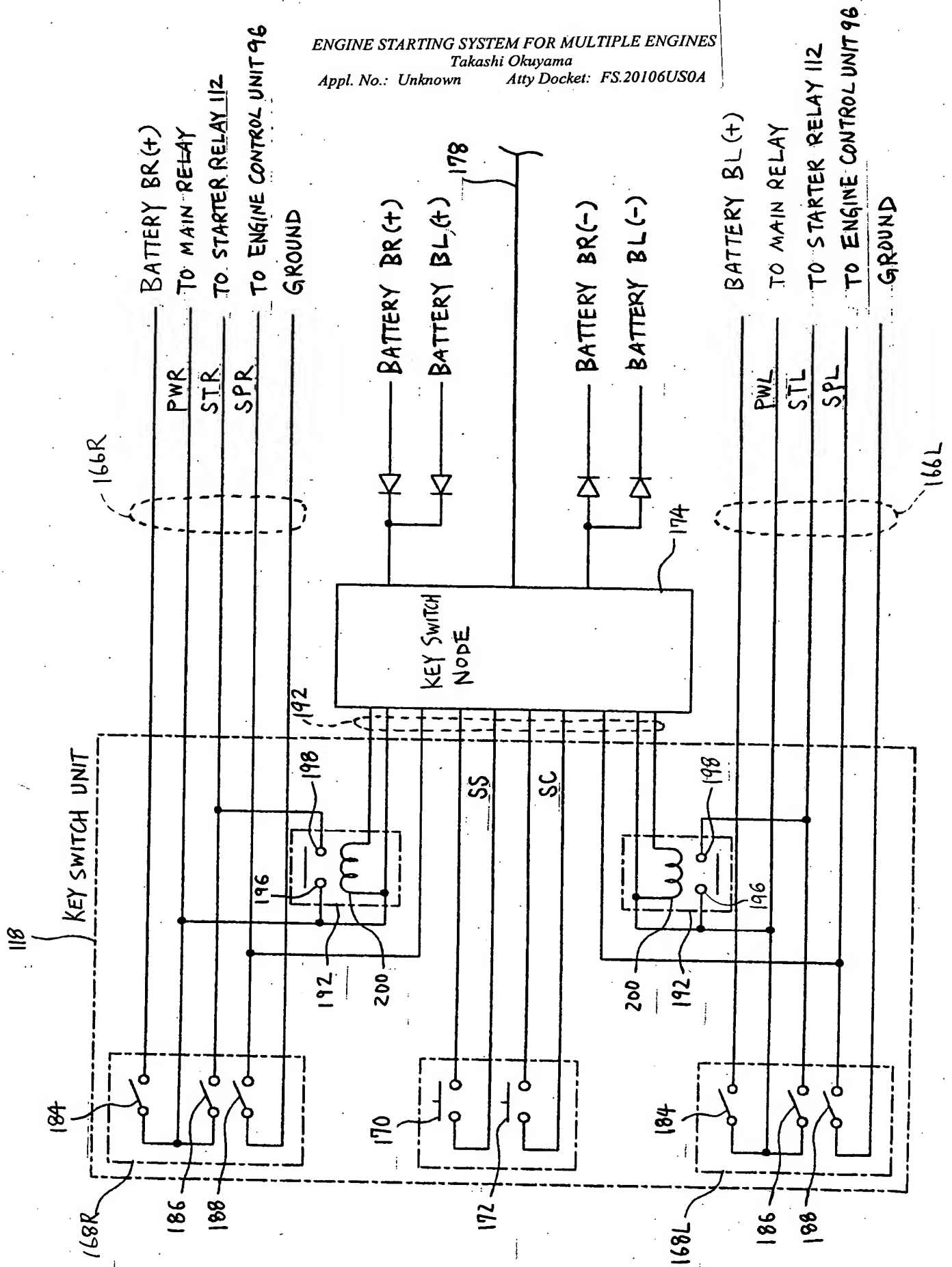


FIGURE 3

ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES

Takashi Okuyama

Appl. No.: Unknown Atty Docket: FS.20106US0A

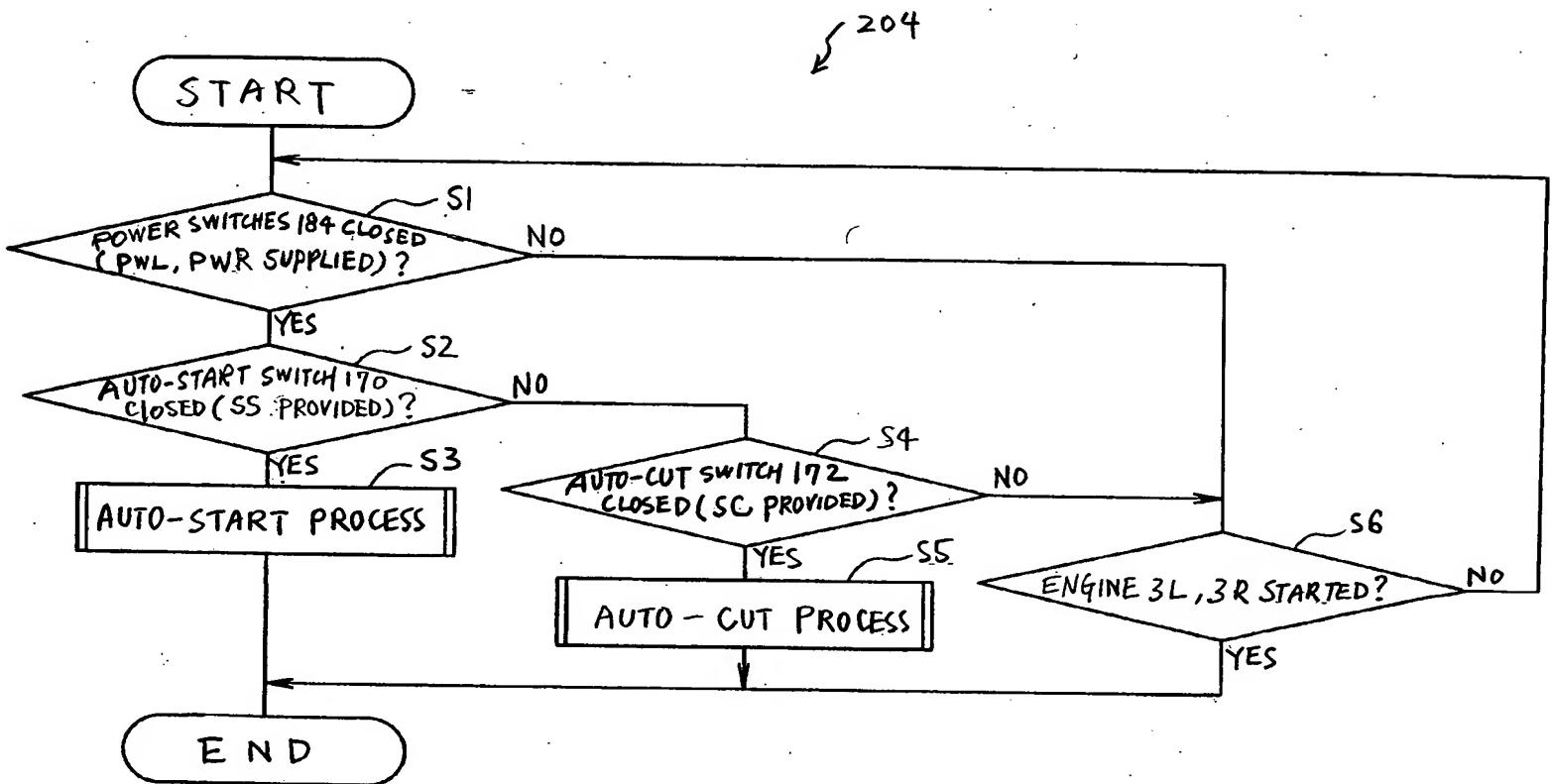


FIGURE 4

ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES

Takashi Okuyama

Appl. No.: Unknown

Atty Docket: FS.20106US0A

START

STARTER RELAYS 112 ACTIVATED
TIMER STARTS COUNTING TIME TL S11

206

READ
ENGINE SPEED NL, NR S12

FL = "1"? S13

YES

NO

NL \geq Nth?

NO

YES

KEEP STARTER RELAY 112
OF ENGINE 38L ACTIVATED S15

TD ELAPSED?

NO

YES

CONTROL STARTER RELAY 112
OF ENGINE 38L DEACTIVATED S17

FL = "1" S18

FR = "1"? S19

NO

NR \geq Nth?

YES

KEEP STARTER RELAY 112
OF ENGINE 38R ACTIVATED S21

TD ELAPSED?

YES

CONTROL STARTER RELAY 112
OF ENGINE 38R DEACTIVATED S23

FR = "1" S24

FL = "1" AND FR = "1"? S25

YES

NO

TL \geq Th?

YES

FL = "1"? S26

NO

YES

CONTROL STARTER RELAY 112
OF ENGINE 38R DEACTIVATED S28

SHOW GUIDANCE AS TO START
FAILURE OF ENGINE 38R S29

FR = "1"? S30

YES

CONTROL STARTER RELAY 112
OF ENGINE 38L DEACTIVATED S31

SHOW GUIDANCE AS TO START
FAILURE OF ENGINE 38L S32

CONTROL STARTER RELAYS
OF BOTH ENGINES DEACTIVATED S33

SHOW GUIDANCE AS TO START
FAILURE OF BOTH ENGINES S34

END

FIGURE 5

ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES

Takashi Okuyama

Appl. No.: Unknown

Atty Docket: FS.20106US0A

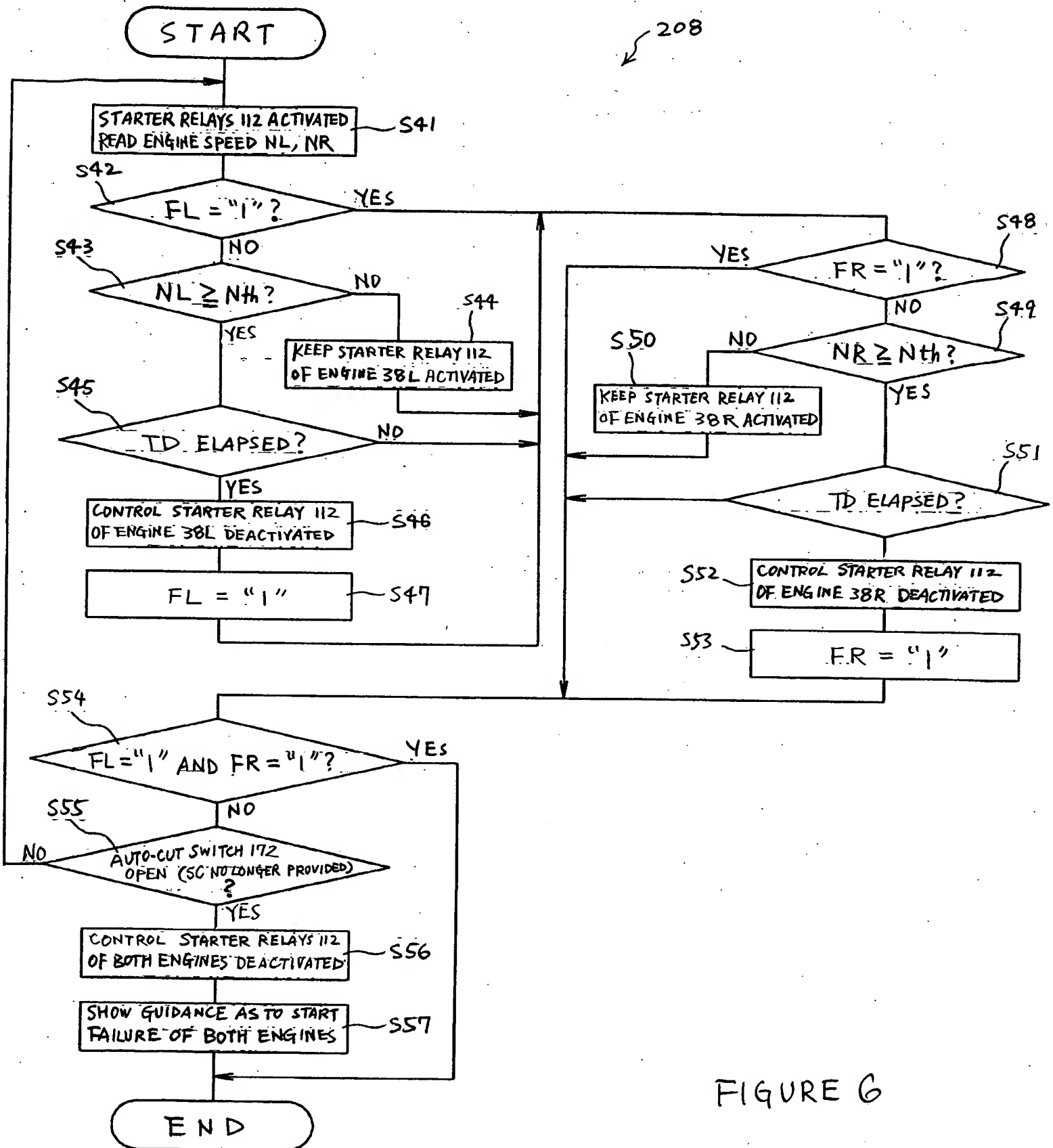


FIGURE 6

ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES
 Takashi Okuyama
 Appl. No.: Unknown Atty Docket: FS.20106US0A

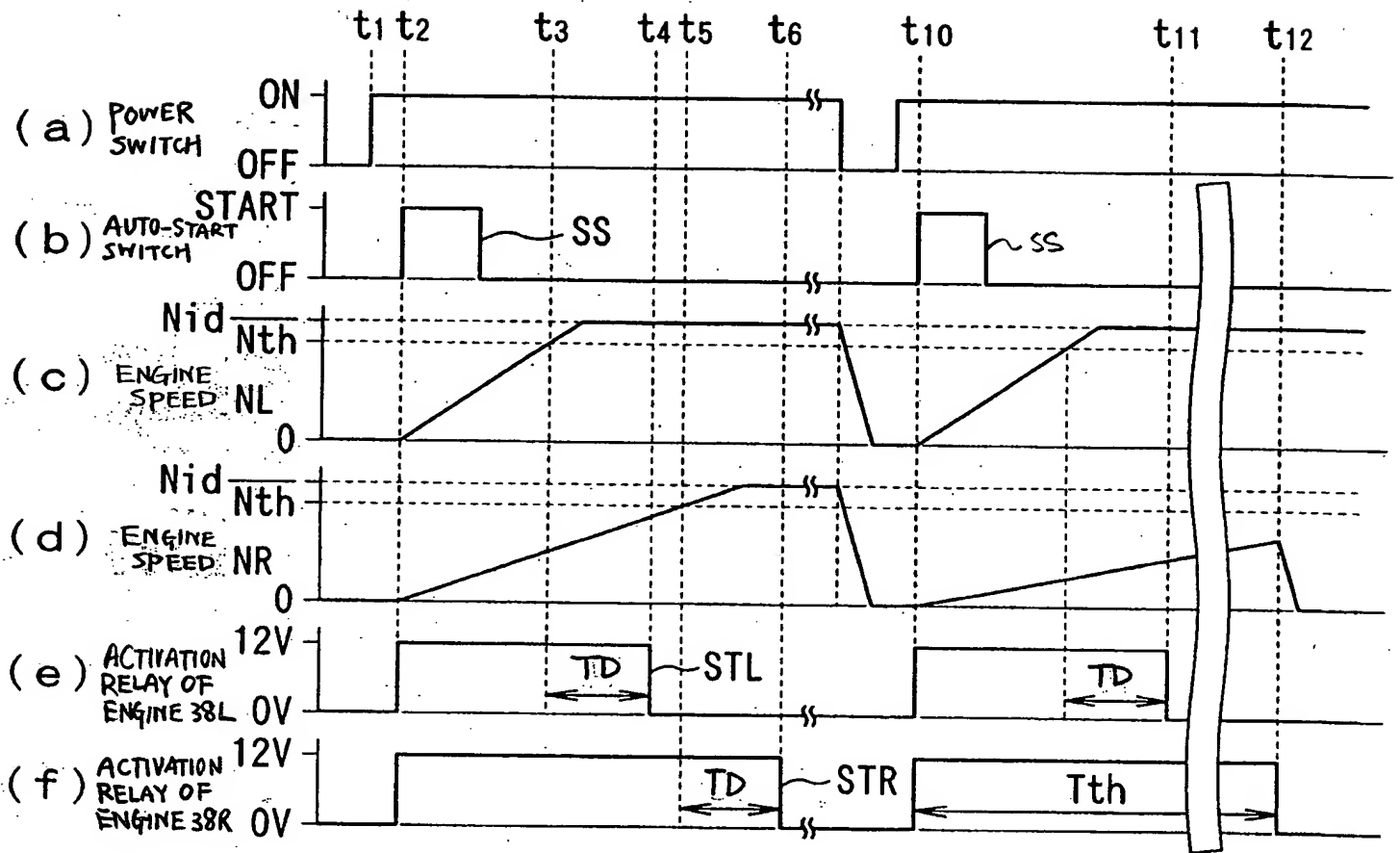


FIGURE 7

ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES

Takashi Okuyama

Appl. No.: Unknown

Atty Docket: FS.20106US0A

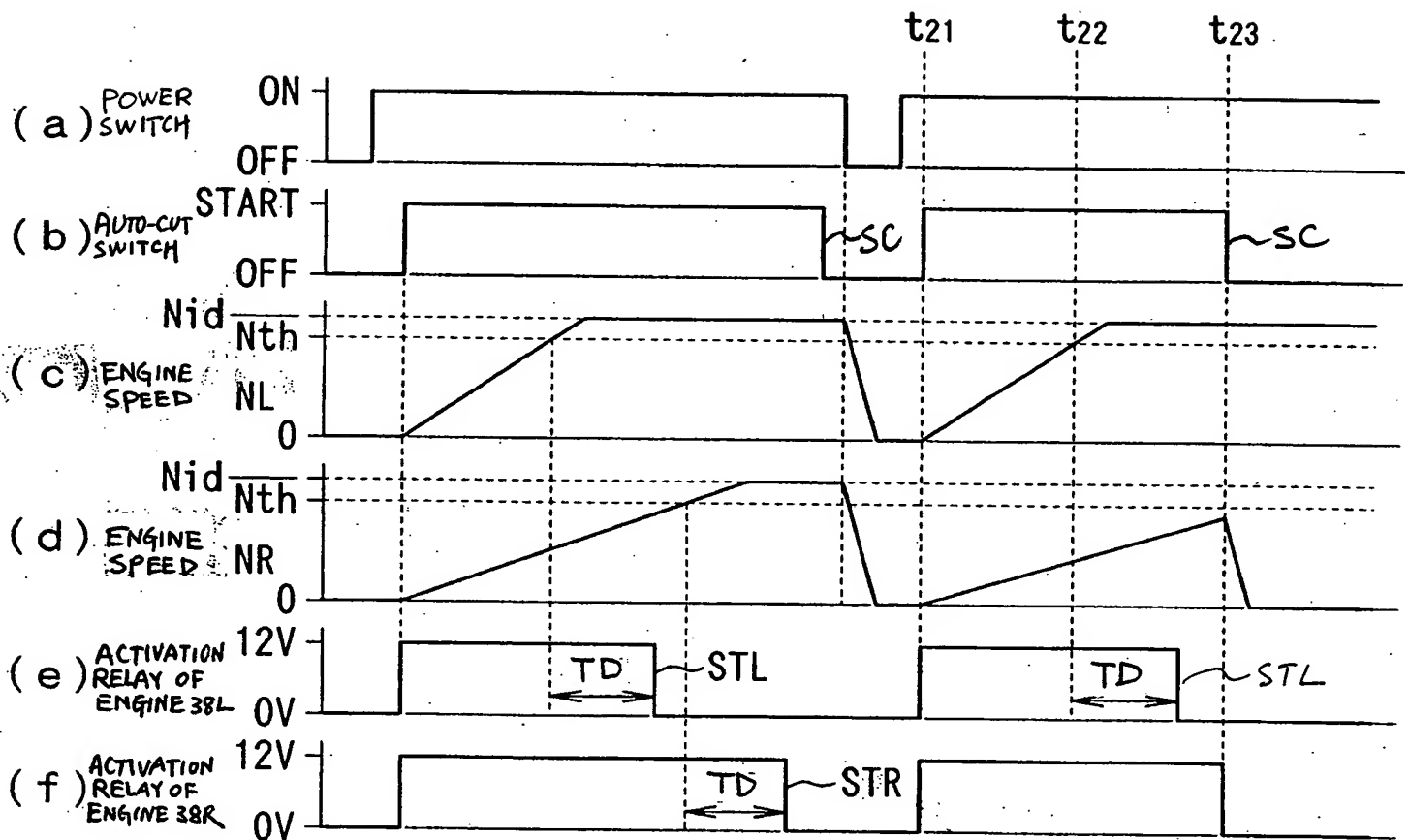


FIGURE 8

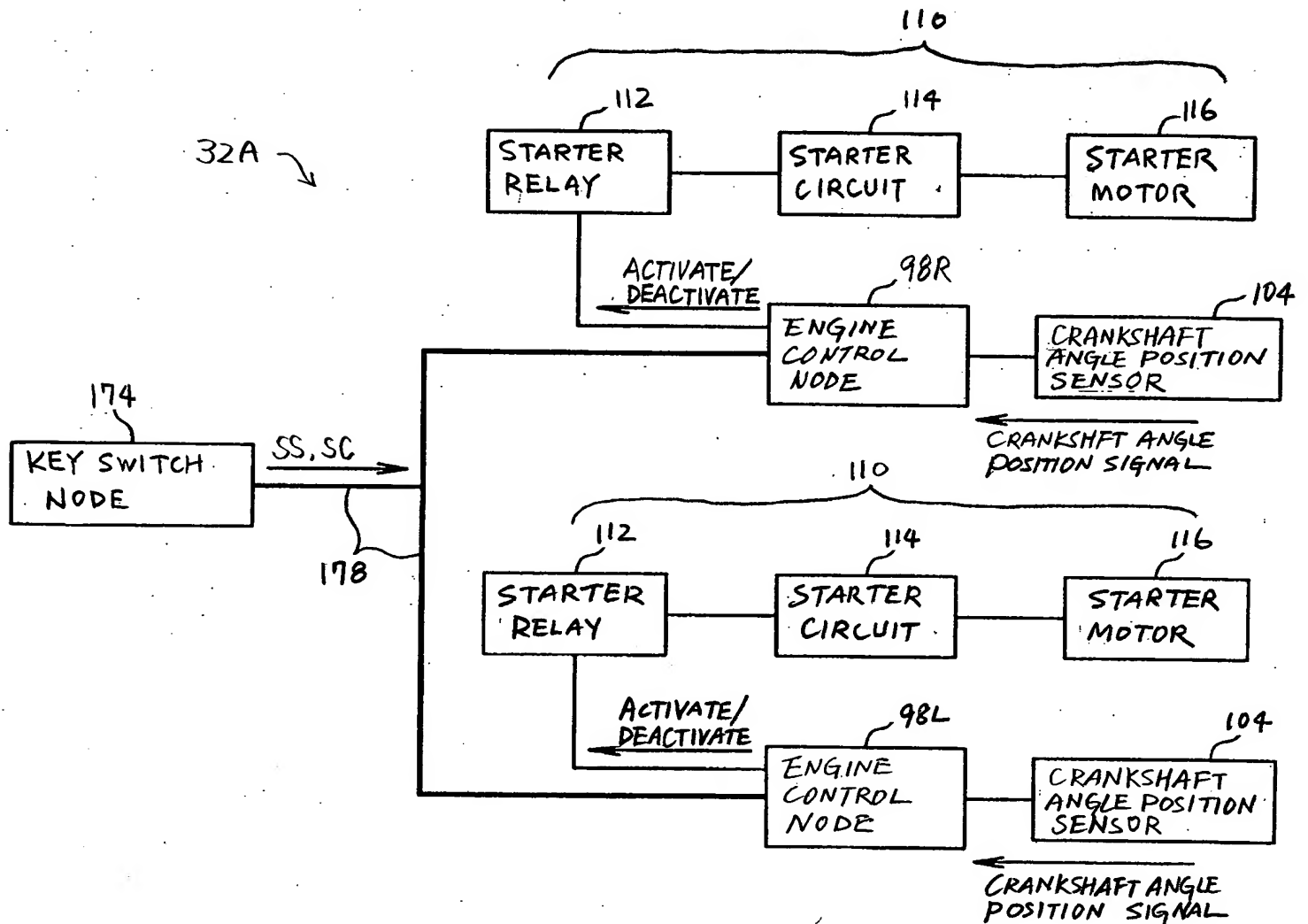


FIGURE 9

ENGINE STARTING SYSTEM FOR MULTIPLE ENGINES

Takashi Okuyama

Appl. No.: Unknown

Atty Docket: FS.20106US0A

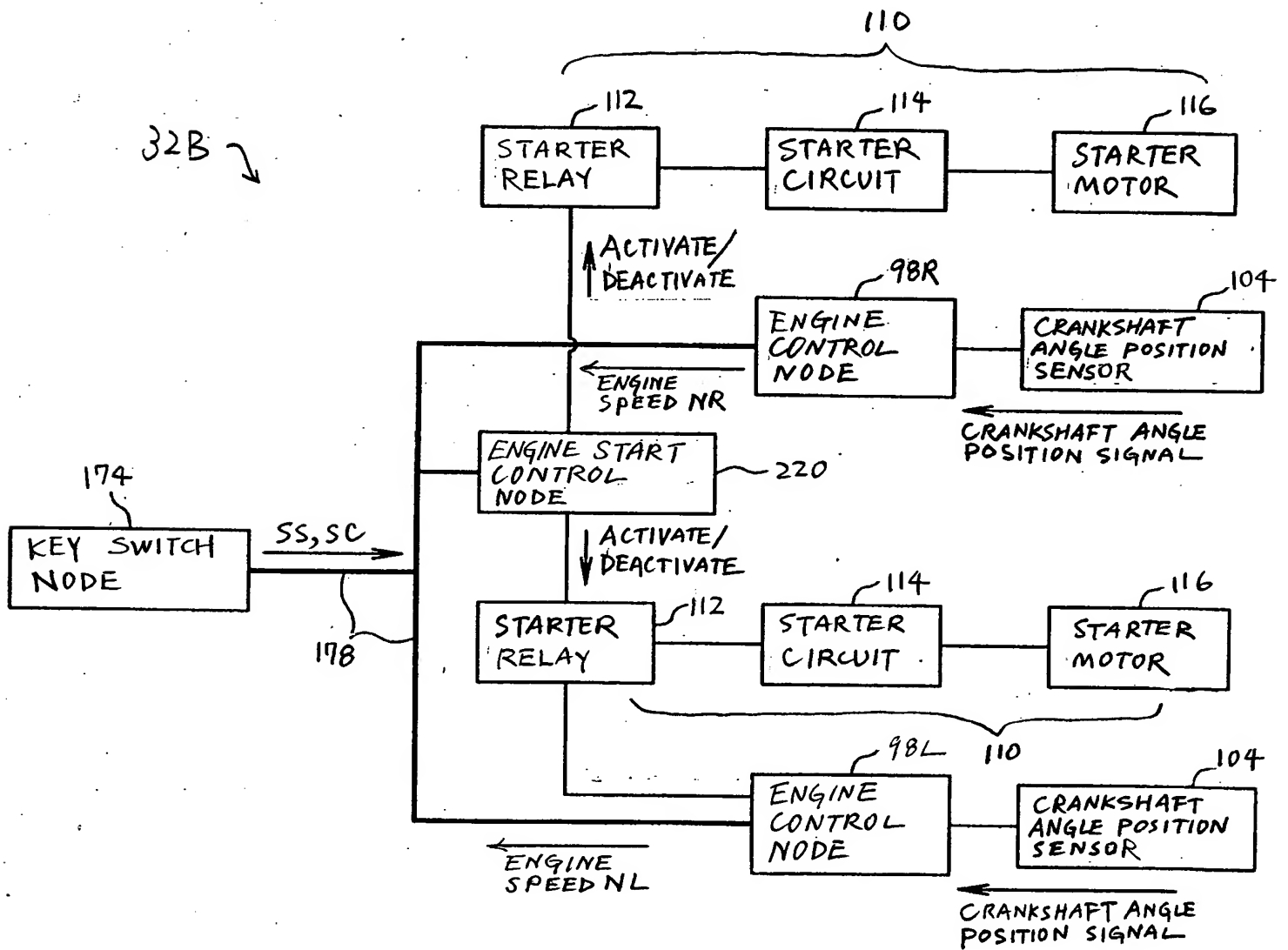


FIGURE 10.